TRANSLATION of related part of Form PCT/ISA/237

PATENT COOPERATION TREATY

From Japanese Patent Office
(INTERNATIONAL SEARCH AUTHORITY)

To: HAYASE, Kenichi

HAYASE & CO.		PCT				
13F, NISSAY SHIN-OSAKA Bldg.,		WRITTEN OPINION OF THE ISA				
3-4-30, Miyahara, Yod	_		(PCT Rule 43bis)			
Osaka-shi, Osaka 532-	·0003 JAPAN					
		Date of Mailing				
		1.	l January 2005			
Applicant's or agent's file reference		Can itam 9 halam	Con Alica and Landau a			
P35826-P0		See item 2 below for the subsequent procedure				
International application No.	International filing da		Priority date			
PCT/JP2004/016575	09 Novem		11 November 2003			
International Patent Classification (IPC) or na Int. Cl ⁷ G111			17/06, 21/00			
Applicant						
Matsushi	ta Electric	Industrial Co	o., Ltd.			
1. This opinion contains indications relating to the following items: I ⋈ Basis of the opinion II □ Priority III □ Non-establishment of report with regard to novelty, inventive step or industrial applicability IV □ Lack of unity of invention V ⋈ Reasoned statement under Rule 43,2.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement VI □ Certain documents cited VI □ Certain defects in the international application VII □ Certain observations on the international application OMISSION (2 and 3)						
Date of completion of this opinion						
Name and mailing address of the ISA/JP	17 Decemb	oer 2004				
Japanese Patent Of	ffice	Authorized officer				
		Telephone No.				

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WRITTEN OPINION OF THE ISA

International application No. PCT/JP2004/016575

I . Basis of the opinion
1. This opinion has been drawn on the basis of the language of international application, unless otherwise indicated below.
OMISSION(2, 3, and 4)

TRANSLATION of related part of Form PCT/ISA/237

International application No. PCT/JP2004/016575

WRITTEN OPINION OF THE ISA

V Reasoned statement under Rule 43,2.1(a)(i) with regard to novelty, i	nventive step or industrial				
applicability; citations and explanations supporting such statement					

1.	STAT	EME	NT
		_	

Novelty (N)	Claims	1-10	YES
	Claims	NONE	NO
Inventive Step(IS)	Claims	3-10	YES
	Claims	1,2	NO
Industrial Applicability (IA)	Claims	1-10	YES
	Claims	NONE	NO

2. CITATIONS AND EXPLANATIONS

Reference 1: JP 2002-269925 A (Matsushita Electric Industrial Co., Ltd.) 2002.09.20

Reference 2: JP 10-214458 A (Matsushita Electric Industrial Co., Ltd.)

1998.08.11

Reference 3: JP 02-260876 A (Toshiba Corporation) 1990.10.23

The invention as defined in Claim 1 has no inventive step in view of References 1 and 2 cited in the International Search Report.

Reference 1 describes the FIR filter that varies a filter coefficient, the equalization error detector 28 that detects an equalization error (which corresponds to the equalizing performance detecting unit), and the correlator 29, the feedback gain adjustor 30 and the filter coefficient update section 31 that update the filter coefficient from the output of the equalization error detector 28 (which corresponds to the equalization coefficient deciding unit) (Paragraphs [0051], [0054]-[0056]).

Reference 2 describes a technique that the PLL circuit 5 extracts a frame sync pulse TMAX from an output of the equalizer circuit (waveform equalizer) 1 (Paragraphs [0007], [0031], [0032]), and it is easy for persons skilled in the art to apply this technique to the technique described in Reference 1.

The invention as defined in Claim 2 has no inventive step in view of References 1 and 2, and Reference 3 cited in the International Search Report.

Reference 3 describes that waveform equalization is not performed after the tap gain of the transversal filter 15 is reset to the initial value before the PLL circuit 24 is synchronized, i.e., locked (page 4, upper right column, lines 9-16, page 4, lower right column, lines 2-10), and it is easy for persons skilled in the art to apply this technique to the techniques described in References 1 and 2.

The inventions as defined in Claims 3 to 10 are not described in any references cited in the International Search Report, nor obvious to persons skilled in the art.